Learning to Fly: The Wright Brother's Adventure							
2008 Mathematics Grade Level Articulations							
Grade 6							
Activity/Lesson	State	Standards					
			Determine the appropriate unit of measure				
			for a given context and the appropriate tool				
Mainlet Dunth and			to measure to the needed precision				
Wright Brothers:	4.7	MA C 4 4 DO 4	(including length, capacity, angles, time, and				
1900 Glider	AZ	MA.6.4.4.PO 1	mass).				
			Determine the appropriate unit of measure				
			for a given context and the appropriate tool to measure to the needed precision				
Wright Brothers:			(including length, capacity, angles, time, and				
1901 Glider	AZ	MA.6.4.4.PO 1	mass).				
1301 Glidei	/\Z	1017.0.4.4.1 0 1	Determine the appropriate unit of measure				
			for a given context and the appropriate tool				
			to measure to the needed precision				
Wright Brothers:			(including length, capacity, angles, time, and				
1902 Glider	AZ	MA.6.4.4.PO 1	mass).				
			Determine the appropriate unit of measure				
			for a given context and the appropriate tool				
			to measure to the needed precision				
Wright Brothers:			(including length, capacity, angles, time, and				
1903 Flyer	AZ	MA.6.4.4.PO 1	mass).				
			Determine the appropriate unit of measure				
			for a given context and the appropriate tool				
			to measure to the needed precision				
ļ., ₅ .	. –		(including length, capacity, angles, time, and				
New Data	AZ	MA.6.4.4.PO 1	mass).				
1902: Success at	4.7	MA C 4 4 DO 4	Compare and order integers; and positive				
Last	AZ	MA.6.1.1.PO 4	fractions, decimals, and percents. Determine the appropriate unit of measure				
			for a given context and the appropriate tool				
			to measure to the needed precision				
1902: Success at			(including length, capacity, angles, time, and				
Last	AZ	MA.6.4.4.PO 1	mass).				
1902: Success at	/ \ <u>_</u>	1407 (10.11.11.11 (1)	Compare two or more sets of data by				
Last	AZ	MA.6.2.1.PO 4					
			Demonstrate an understanding of fractions				
			as rates, division of whole numbers, parts of				
1903: Powered			a whole, parts of a set, and locations on a				
Flight	AZ	MA.6.1.1.PO 3	real number line.				
			Divide multi-digit whole numbers and				
1903: Powered			decimals by decimal divisors with and				
Flight	AZ	MA.6.1.2.PO 3	without remainders.				
			Make estimates appropriate to a given				
1903: Powered	. 7	NA 0 4 0 50 5	situation and verify the reasonableness of				
Flight	AZ	MA.6.1.3.PO 2	the results.				

			I -
			Recognize and describe a relationship
			between two quantities, given by a chart,
1903: Powered			table, or graph, using words and
Flight	AZ	MA.6.3.2.PO 1	expressions.
			Determine the appropriate unit of measure
			for a given context and the appropriate tool
			to measure to the needed precision
1903: Powered			(including length, capacity, angles, time, and
Flight	AZ	MA.6.4.4.PO 1	mass).
1903: Powered			Estimate the measure of objects using a
Flight	AZ	MA.6.4.4.PO 3	scale drawing or map.
			Isolate and organize mathematical
			information taken from symbols, diagrams,
1903: Powered			and graphs to make inferences, draw
Flight	AZ	MA.6.5.2.PO 7	conclusions, and justify reasoning.
	Learning	to Fly: The Wright B	rother's Adventure
		2008 Mathema	
		Grade Level Articu	ılations
Arizona Mathemat	ics		
Grade 7			
Activity/Lesson	State	Standards	
7.0			Recognize and convert between expressions
			for positive and negative rational numbers,
1902: Success at			including fractions, decimals, percents, and
Last	AZ	MA.7.1.1.PO 1	ratios.
2001	,		Solve problems involving percentages, ratio
1902: Success at			and proportion, including tax, discount, tips,
Last	AZ	MA 7 1 2 PO 3	and part/whole relationships.
1903: Powered	, <u>, , , , , , , , , , , , , , , , , , </u>	1417 (17.11.2.11 0 0	and part whole relationeripe.
Flight	AZ	MA.7.1.2.PO 1	Add, subtract, multiply, and divide integers.
i ligiti	7 12	1017 (.7 . 1 . 2 . 1 0 1	Solve problems with rational numbers and
1903: Powered			appropriate operations using exact answers
Flight	AZ	MA.7.1.2.PO 2	
1903: Powered	72	1017.17.11.2.11 0 2	Estimate and apply benchmarks for rational
Flight	AZ	MA.7.1.3.PO 1	numbers and common irrational numbers.
1903: Powered	72	IVIA.7.1.3.1 O 1	Make estimates appropriate to a given
Flight	AZ	MA.7.1.3.PO 2	situation.
i ligiti	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	IVIA.7.1.3.F O 2	
			Estimate the measure of an object in one system of units given the measure of that
1903: Powered			object in another system and the
	\	MA 7 1 2 DO 4	-
Flight	AZ	MA.7.1.3.PO 4	• •
1002: Downered			Solve problems by selecting, constructing,
1903: Powered	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	MA 704 DO 4	and interpreting displays of data including
Flight	AZ	MA.7.2.1.PO 1	multi-line graphs and scatterplots.
			Recognize, describe, create, and analyze
4000 B			numerical and geometric sequences using
1903: Powered			tables or graphs; make conjectures about
Flight	AZ	MA.7.3.1.PO 1	these sequences.
1903: Powered			Use graphs and tables to model and analyze
Flight	AZ	MA.7.3.4.PO 1	change.

1903: Powered			Determine actual lengths based on scale
Flight	AZ	MA.7.4.4.PO 4	drawings or maps.
1903: Powered			Measure to the appropriate degree of
Flight	AZ	MA.7.4.4.PO 7	accuracy and justify reasoning.
3 1			Isolate and organize mathematical
			information taken from symbols, diagrams,
1903: Powered			and graphs to make inferences, draw
Flight	AZ	MA.7.5.2.PO 7	conclusions, and justify reasoning.
9	7.2	111111111111111111111111111111111111111	constant from the following reasoning.
	Learning	to Fly: The Wright B	rother's Adventure
		2008 Mathema	
	_	Grade Level Articu	ulations
Arizona Mathemat	ics		
Grade 8	04-4-	Otan danda	
Activity/Lesson	State	Standards	Analysis situations simplify and only
			Analyze situations, simplify, and solve
1001, The Circl			problems involving linear equations and
1901: The First	4.7	MA 0 0 0 DO 0	inequalities using the properties of the real
Improvement	AZ	MA.8.3.3.PO 3	number system.
1902: Success at			Solve problems involving percent increase,
Last	AZ	MA.8.1.2.PO 3	
Lasi	AL	IVIA.6.1.2.FU 3	percent decrease, and simple interest rates.
1902: Success at			Make inferences by comparing the same
Last	AZ	MA.8.2.1.PO 2	, ,
1903: Powered	72	WIA.0.2.1.1 O Z	Make estimates appropriate to a given
Flight	AZ	MA.8.1.3.PO 1	situation.
ı ııgııt	7.2	100 1.0.1.0.1 0 1	Estimate the location of rational and
1903: Powered			common irrational numbers on a number
Flight	AZ	MA.8.1.3.PO 2	line.
9			Recognize, describe, create, and analyze
			numerical and geometric sequences using
1903: Powered			tables, graphs, words, or symbols; make
Flight	AZ	MA.8.3.1.PO 1	conjectures about these sequences.
			Sketch and interpret a graph that models a
1903: Powered			given context; describe a context that is
Flight	AZ	MA.8.3.2.PO 1	modeled by a given graph.
			Isolate and organize mathematical
			information taken from symbols, diagrams,
1903: Powered			and graphs to make inferences, draw
Flight	AZ	MA.8.5.2.PO 7	conclusions, and justify reasoning.
	Learning	to Fly: The Wright B	
		2008 Mathema	
		Grade Level Articu	ulations
Arizona Mathemat	ICS		
Grades 9-10	01-1-	0111-	
Activity/Lesson	State	Standards	Express that the distance between two
1902: Success at		MA.9-	Express that the distance between two numbers is the absolute value of their
	\		
Last	AZ	10.1.1.PO 3	difference.

1902: Success at		MA.9-	Make inferences by comparing data sets
Last	AZ	10.2.1.PO 4	using one or more summary statistics.
			Express that the distance between two
1903: Powered		MA.9-	numbers is the absolute value of their
Flight	AZ	10.1.1.PO 3	difference.
1903: Powered		MA.9-	Use estimation to determine the
Flight	AZ	10.1.3.PO 2	reasonableness of a solution.
1903: Powered		MA.9-	Estimate the location of the rational or
Flight	AZ	10.1.3.PO 4	irrational numbers on a number line.
			Recognize, describe, and analyze
1903: Powered		MA.9-	sequences using tables, graphs, words, or
Flight	AZ	10.3.1.PO 1	symbols; use sequences in modeling.
			Sketch and interpret a graph that models a
			given context, make connections between
			the graph and the context, and solve
1903: Powered		MA.9-	maximum and minimum problems using the
Flight	AZ	10.3.2.PO 1	graph.
			Determine if a relationship represented by an
1903: Powered		MA.9-	equation, graph, table, description, or set of
Flight	AZ	10.3.2.PO 2	ordered pairs is a function.
			Use equations, graphs, tables, descriptions,
1903: Powered		MA.9-	or sets of ordered pairs to express a
Flight	AZ	10.3.2.PO 4	relationship between two variables.
1903: Powered		MA.9-	Determine the distance between two points
Flight	AZ	10.4.3.PO 3	in the coordinate plane.